

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A23P1/16 A23J3/00 A23G3/00 A23L1/0534  
 A21D13/00 A23L1/054 A23L1/056  
 A61K7/00

According to International Patent Classification (IPC) or to both national classification and IPC

10/529248

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 A23P A23L A23J A23G A21D A61K A23D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, FSTA

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	POOLE S: "The foam-enhancing properties of basic biopolymers." INTERNATIONAL JOURNAL OF FOOD SCIENCE & TECHNOLOGY 1989, vol. 24, no. 2, 1989, pages 121-137, XP008014428 UK cited in the application the whole document	1-14
X	GB 2 134 117 A (BRITISH FOOD MANUFACTURING IND) 8 August 1984 (1984-08-08) cited in the application the whole document	1-14

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

22 January 2004

Date of mailing of the international search report

09/02/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 179 043 A (BRITISH FOOD MANUFACTURING IND) 25 February 1987 (1987-02-25) cited in the application the whole document	1-14
X	----- AHMED M ET AL: "Foaming of aqueous solutions of protein + propylene glycol alginate." FOOD HYDROCOLLOIDS 1991, vol. 4, no. 5, 1991, pages 395-402, XP008014429 UK cited in the application the whole document	1-14
X	----- US 5 342 643 A (WOLF PETER A ET AL) 30 August 1994 (1994-08-30) the whole document	1-8,11
X	----- PATENT ABSTRACTS OF JAPAN vol. 0091, no. 30 (C-284), 5 June 1985 (1985-06-05) & JP 60 016573 A (RAION KK), 28 January 1985 (1985-01-28) abstract	1-8,11
X	----- GIRARD M ET AL: "Emulsifying properties of whey protein-carboxymethylcellulose complexes." JOURNAL OF FOOD SCIENCE, vol. 67, no. 1, 2002, pages 113-119, XP002267658 the whole document	1-8,11
X	----- EINHORN-STOLL U ET AL: "MODIFIED PECTINS IN WHEY PROTEIN EMULSIONS" DIE NAHRUNG, vol. 40, no. 2, 1996, pages 60-67, XP000604246 DE ISSN: 0027-769X the whole document	1-8,11
X	----- GARTI N ET AL: "Portulaca oleracea gum and casein interactions and emulsion stability." FOOD HYDROCOLLOIDS, vol. 13, no. 2, 1999, pages 127-138, XP002267659 the whole document	1-8,11
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DICKINSON E ET AL: "Influence of kappa-carrageenan on the properties of a protein-stabilized emulsion." FOOD HYDROCOLLOIDS, vol. 12, no. 4, 1998, pages 417-423, XP002267660 the whole document	1-8,11
X	DICKINSON E: "Stability and rheological implications of electrostatic milk protein-polysaccharide interactions." TRENDS IN FOOD SCIENCE & TECHNOLOGY, vol. 9, no. 10, 1998, page 347354, XP002267661 the whole document	1-8,11
X	GB 1 440 181 A (UNILEVER LTD) 23 June 1976 (1976-06-23) the whole document	1-8,11
X	WO 00/23038 A (REVLON CONSUMER PROD CORP) 27 April 2000 (2000-04-27) the whole document	1-8,11, 13
X	& US 6 197 319 B1 (RUSS JULIO GANS ET AL) 6 March 2001 (2001-03-06) cited in the application	1-8,11, 13
X	GB 751 600 A (NCR CO) 27 June 1956 (1956-06-27) the whole document	1-8,11
X	CH 675 370 A (CIBA GEIGY AG) 28 September 1990 (1990-09-28) figure 5	15

# INTERNATIONAL SEARCH REPORT

International Application No.  
EP 03/10740

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-8 partly, 9, 10, 12, 14, 15

Product, process and device for stabilizing a product with a protein-polysaccharide or protein-protein complex, where the product is a foam, a foamed emulsion or a foamed dispersion.

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2. claims: 1-8 partly, 11, 13

Product and process for stabilizing a product with a protein-polysaccharide or protein-protein complex, where the product is an emulsion or a dispersed emulsion.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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US 5342643	A	30-08-1994	NONE	
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CH 675370	A 28-09-1990	CH 675370 A5	28-09-1990
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